

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: KATO, et al.
Application No.: TBD
Filed: March 10, 2004
For: VACUUM PROCESSING APPARATUS AND OPERATING
METHOD THEREFOR
Expected
Group Art Unit: 3749
Expected
Examiner: P. Wilson

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR § 1.97 AND § 1.98

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

March 10, 2004

Sir:

Pursuant to Applicants' duty of disclosure, enclosed please find a List of documents cited in connection with prior applications of the above-identified application. The listed documents were cited in at least one of the following U.S. patent applications, for which benefit has been claimed under 35 USC 120 in the above-identified application:

- (1) Application No. 10/682,901, filed October 14, 2003;
- (2) Application No. 09/766,975, filed January 23, 2001, now U.S.

Patent No. 6,655,044, issued December 2, 2003;

- (3) Application No. 09/461,432, filed December 16, 1999, now U.S. Patent No. 6,330,755, issued December 18, 2001;
- (4) Application No. 09/177,495, filed October 23, 1998, now U.S. Patent No. 6,012,235, issued January 11, 2000;
- (5) Application No. 09/061,062, filed April 16, 1998, now U.S. Patent No. 5,950,330, issued September 14, 1999;
- (6) Application No. 07/751,951, filed August 29, 1991, now U.S. Patent No. 5,314,509, issued May 24, 1994;
- (7) Application No. 08/096,256, filed July 26, 1993, now U.S. Patent No. 5,349,762, issued September 27, 1994;
- (8) Application No. 08/443,039, filed May 17, 1995, now U.S. Patent No. 5,553,396, issued September 10, 1996;
- (9) Application No. 08/593,870, filed January 30, 1996, now U.S. Patent No. 5,661,913, issued September 2, 1997;
- (10) Application No. 08/302,443, filed September 9, 1994, now U.S. Patent No. 5,457,896, issued October 17, 1995; and
- (11) Application No. 08/882,731, filed June 26, 1997, now U.S. Patent No. 5,784,799, issued July 28, 1998.

In particular, note that each of these listed documents cited in connection with prior applications, was cited in Application No. 10/682,901, filed October 14, 2003.

The listed documents have been cited in connection with at least one prior application of the above-identified application for which priority has been claimed under 35 USC 120; accordingly, copies of the listed documents are not enclosed.

Of the listed documents, attention is particularly directed to U.S. Patent No. 4,923,584 and Japanese Patent Document No. 63-153270. Please note that a partial English translation of Japanese Patent Document No. 63-153270 has been submitted in prior applications of the above-identified application, for which priority has been claimed under 35 USC 120. In addition, a full English translation of Japanese Patent Document No. 63-153270 has previously been submitted in a prior application of the above-identified application being relied upon under 35 USC §120.

In addition, note the following comments concerning various of the listed documents which are not in English. JP No. 2-61064 corresponds to U.S. Patent No. 4,969,790 (also listed), and relates to a merry-go-round system. JP No. 1-310553 relates to a single chamber. JP No. 1-251734 relates to a vacuum cassette. JP No. 62-44571 relates to an ion implantor. JP No. 62-50463 relates to a sputtering device; and JP No. 2-106037 relates to a single chamber device. JP No. 57-29577 relates to a sputtering device. In "Semiconductor Equipment Association of Japan", a load lock chamber is defined.

This Information Disclosure Statement is being submitted concurrently with the filing of the above-identified application. Accordingly, it is respectfully submitted that requirements of 37 CFR 1.97(b) are satisfied.

To the extent that the enclosed documents are not in English, it is respectfully submitted that the requirements of 37 CFR 1.98(a)(3) are satisfied by the previously submitted abstracts of various of the documents not in English, partial English translations of various of the documents not in English, the foregoing comments, and the submitted full English translation of JP No. 63-153270.

In view of all of the foregoing, it is respectfully submitted that all applicable requirements of 37 CFR 1.97 and 1.98 have been satisfied, in connection with the documents on the enclosed List. Accordingly, consideration of the listed documents, upon examination of the above-identified application, is respectfully requested.

To the extent necessary, Applicants petition for an extension of time under 37 CFR § 1.136. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to the Deposit Account No. 01-2135 (Case No. 503.30414C56) and please credit any excess fees to such Deposit Account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP

A handwritten signature in black ink, appearing to read "William I. Solomon", with a long horizontal flourish extending to the right.

William I. Solomon
Registration No. 28,565

1300 North Seventeenth Street
Suite 1800
Arlington, VA 22209
Tel.: 703-312-6600
Fax.: 703-312-6666
WIS/dmw

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

520.30414C56

APPLICATION NO.

TBD

APPLICANT
KATO, et al.

FILING DATE
March 10, 2004

EXPECTED GROUP
3749

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	3 6 5 2 4 4 4	2-72	Lester, et al.			
	3 9 8 1 7 9 1	9-76	Rosvold			
	4 2 2 6 8 9 7	10-80	Coleman			
	4 3 1 1 4 2 7	1-82	Coad, et al.			
	4 3 1 3 8 1 5	2-82	Graves, Jr. et al.			
	4 4 4 9 8 8 5	5-84	Hertel, et al.			
	4 4 5 7 6 6 1	7-84	Flint, et al.			
	4 5 3 4 3 1 4	8-85	Ackley			
	4 5 6 3 2 4 0	1-86	Shibata, et al.			
	4 6 3 4 3 3 1	1-87	Hertel			
	4 7 0 5 9 5 1	11-87	Layman, et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCL ASS	TRANSLATION
					YES NO
6 2 8 9 8 8 1	4-87	Japan			X
6 2 2 0 7 8 6 6	9-87	Japan			X
1 3 1 9 7 0	2-89	Japan			X
1 3 1 9 7 1	2-89	Japan			X
6 3 6 5 8 2	1-89	Japan			X
1 1 3 5 0 1 5	5-89	Japan			X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	R.P.H. Chang, "Multipurpose plasma reactor for materials research and processing", J. Vac. Sci. Technol., Vol. 14, No. 1, Jan./Feb. 1977, pages 278-280.
	Semiconductor Equipment Association of Japan, "Terminological Dictionary of Semiconductor Equipment", front, table, page 183, back, Nov. 20, 1987.
	Semiconductor Equipment Association of Japan, "Semiconductor News", Vol. 4, pp. 38-43, April 10, 1987 (w/ translation).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

503.30414C56

APPLICATION NO.

TBD

APPLICANT
KATO, et al.

FILING DATE
March 10, 2004

EXPECTED GROUP
3749

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLAS S	SUBCL ASS	FILING DATE IF APPROPRIATE
	4 7 1 5 7 6 4	12-87	Hutchinson			
	4 8 5 1 1 0 1	7-89	Hutchinson			
	4 8 3 6 7 3 3	6-89	Hertel, et al.			
	4 8 3 6 9 0 5	6-89	Davis, et al.			
	4 8 9 5 1 0 7	1-90	Yano, et al.			
	4 9 0 2 9 3 4	2-90	Miyamura, et al.			
	4 9 0 3 9 3 7	2-90	Jakuniec, et al.			
	4 9 0 9 6 9 5	3-90	Hurwitt, et al.			
	4 9 1 1 5 9 7	3-90	Maydan, et al.			
	4 9 1 5 5 6 4	4-90	Erer, et al.			
	4 9 1 7 5 5 6	4-90	Stark, et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLAS S	SUBCL ASS	TRANSLATION	
					YES	NO
2 6 5 2 5 2	3-90	Japan			X	
6 4 1 2 0 3 7	1-89	Japan			X	
2 6 1 0 6 4	3-90	Japan				X
1 3 1 0 5 5 3	12-89	Japan				X
1 2 5 1 7 3 4	10-89	Japan				X
6 2 4 4 5 7 1	2-87	Japan				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

520.30414C56.

APPLICATION NO.

TBD

APPLICANT

KATO, et al.

Filed:

03/10/04

EXPECTED GROUP

3749

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE
	4 9 2 4 8 9 0	5-90	Giles, et al.	134	902	
	4 9 3 6 3 2 9	6-90	Michael, et al.	134	902	
	5 0 1 4 2 1 7	5-91	Savage	364	550	
	5 0 0 7 9 8 1	4-91	Kawasaki, et al.			
	4 1 3 8 3 0 6	2-79	Niwa	156	345	
	4 5 7 6 6 9 8	3-86	Gallagher, et al.	204	192	
	5 0 1 4 2 1 7	5-91	Savage	364	498	
	5 3 5 1 4 1 5	10-94	Brooks, et al.	34	389	
	4 6 4 3 6 2 9	2-87	Takahashi, et al.	414	331	
	4 8 2 4 3 0 9	4-89	Kakehl, et al.	414	217	
	4 9 5 1 6 0 1	8-90	Maydan, et al.	414	217X	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION
					YES NO
2 0 3 8 1 3 3 8	5-90	Europe			
6 4 1 2 0 3 7	1-89	Japan			
4 3 0 5 4 9	4-92	Japan			
8 7 0 7 3 0 9	5-87	PCT Int'l Appl.			
2 9 4 6 4 7	4-90	Japan			
6 0 2 4 6 6 3 5	12-85	Japan			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

520.30414C56

APPLICATION NO.

TBD

APPLICANT

KATO, et al.

Filed:

03/10/04

EXPECTED GROUP

3749

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE
	5 0 0 7 9 8 1	4-91	Kawasaki, et al.			
	5 2 9 2 3 9 3	3-94	Maydan, et al.			
	5 4 5 2 1 6 6	9-95	Aylwin, et al.			
	5 5 0 4 0 3 3	4-96	Bajor, et al.			
	5 5 0 4 3 4 7	4-96	Jovanovic, et al.			
	5 5 5 6 7 1 4	9-96	Fukuyama, et al.			
	5 6 5 1 8 5 8	7-97	Lin			
	5 6 7 5 4 6 1	10-97	Aylwin, et al.			
	4 3 1 3 7 8 3	2-82	Davies, et al.			
	4 3 1 8 7 6 7	3-82	Hijikata, et al.			
	4 9 6 9 7 9 0	11-90	Petz, et al.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION	
					YES	NO
6 2 5 0 4 6 3	3-87	Japan				X
2 1 0 6 0 3 7	4-90	Japan				X
5 7 2 9 5 7 7	2-82	Japan				X
6 3 1 5 3 2 7 0	6-88	Japan			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30415C56	SERIAL NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KATO, et al. Filed: 03/10/04 GROUP 3749	

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation / Abstract	
						Yes	No
AM							
AN							
AO							
AP							
AQ							
AR							
AS							
AT							

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

AU	JP patent No. 3145375, Notice of Reasons for Revocation 12-18-01 (TR)
AV	JP patent No. 3147230, Notice of Reasons for Revocation 12-18-01 (TR)
AW	
AX	
AY	
AZ	
Examiner	Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
	APPLICANT KATO, et al.	
	Filed: 03/10/04	GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation / Abstract	
						Yes	No
AM							
AN							
AO							
AP							
AQ							
AR							
AS							
AT							

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	KR application No. 46756/98, Preliminary Notice of Ground(s) for Rejection 1-20-99 (TR)
	AV	KR application No. 212874, 12-22-00, Notice of Decision on Opposition to the Granted Patent
	AW	KR application No. 46757/98, Preliminary Notice of Ground(s) for Rejection 1-20-99 (TR)
	AX	KR application No. 212819, 12-22-00, Notice of Decision on Opposition to the Granted Patent (TR)
	AY	JP patent No. 3145359, Notice of Reasons for Revocation 12-18-01 (TR)
	AZ	JP patent No. 3145375, Notice of Reasons for Revocation 12-18-01 (TR)
Examiner:		Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KATO, et al.	
		Filed: 03/10/04	GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
	AM						
	AN						
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	EP97111628, Office action 6-2001
	AV	EP98106162, Office action 11-2000
	AW	EP98106162, Office action 6-2001
	AX	KR application No. 14984/91, Preliminary Notice of Ground(s) for Rejection (TR)
	AY	KR application No. 184682-00-00 Notice of Decision on Opposition to the Granted Patent 10-4-2000 (TR)
	AZ	KR application No. 184682, Trial Decision 8-1-00 (TR)
Examiner		Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KATO, et al.	
		Filed: 03/10/04	GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
AM							
AN							
AO							
AP							
AQ							
AR							
AS							
AT							

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

AU	EP91307625, Summons to attend oral proceedings 12-9-99
AV	EP91307625, Communication of a notice of opposition 11-19-98
AW	EP91307625, Interlocutory decision in Opposition proceeding, 5-16-00
AX	EP91307625, Minutes of the oral proceedings, 3-9-00
AY	EP97111628, Office action 12-1999
AZ	EP97111628, Office action 11-2000
Examiner	
Date Considered	

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
	APPLICANT KATO, et al.	
	Filed: 03/10/04	GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
AM							
AN							
AO							
AP							
AQ							
AR							
AS							
AT							

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

AU	JP application No. 11-001263, Notification of Reasons for Refusal 2-2-00 (TR)
AV	JP application No. 2000-05449, Notification of Reasons for Refusal 9-6-00 (TR)
AW	JP application No. 2000-054450, Notification of Reasons for Refusal 9-6-00 (TR)
AX	JP application No. 2000-054451, Notification of Reasons for Refusal 9-6-00 (TR)
AY	JP application No. 2000-054452, Notification of Reasons for Refusal 9-6-00 (TR)
AZ	EP91307625, Office Action 10-11-93
Examiner	Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KATO, et al.	
		Filed: 03/10/04	GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
	AM	2-224242	9-6-90	Japan		ABS	
	AN	2-224242	9-6-90	Japan		PTR	
	AO	58-108641	6-28-83	Japan		ABS	
	AP	1-120811	5-12-89	Japan		ABS	
	AQ	61-250185	11-7-86	Japan		ABS	
	AR						
	AS						
	AT						

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	JP patent No. 2816139, Notice of Reasons for Revocation 11-21-99 (TR)
	AV	Official Decision on Opposition to Grant of Patent 1999-71584 1-12-01 (TR)
	AW	JP application No. 9-329873, Notification of Reasons for Refusal 7-14-98 (TR)
	AX	JP application No. 9-329873, Notification of Reasons for Refusal 11-10-98 (TR)
	AY	JP patent No. 2942527, Notice of Reasons for Revocation 6-27-00 (TR)
	AZ	Decision on Opposition to the Grant of a Patent 2000-70844 1-12-01 (TR)
Examiner		Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KATO, et al.	
		Filed: 03/10/04	GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
	AM	2-178946	7-11-90	Japan		PTR/ABS	
	AN	62-132321	6-15-87	Japan		PTR/ABS	
	AO	63-131123	8-26-88	Japan		PTR	
	AP	87/07309	12-3-87	WO			
	AQ	0381338	8-8-90	Europe			
	AR	0246453	11-25-87	Europe			
	AS	2-65252	3-5-90	Japan		PTR	
	AT	1-135015	5-26-89	Japan		ABS	

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	JP application No. 2646905, Notice of Reasons for Revocation 7-21-99 (TR)
	AV	Decision for Patent Opposition, Opposition No. 10-70995 (10-99) (TR)
	AW	JP application No. 2-225321, Notification of Reasons for Refusal 10-15-96 (TR)
	AX	JP application No. 8-335329, Interview Record (TR)
	AY	JP application No. 8-335329, Notification of Reasons for Refusal 9-30-97 (TR)
	AZ	JP application No. 8-335329, Notification of Reasons for Refusal 4-7-98 (TR)
Examiner		Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
	APPLICANT KATO, et al.	
	Filed: 03/10/04	GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
AM	62-216315	9-22-87	Japan			ABS	
AN	60-52574	3-25-85	Japan			ABS	
AO	4-82841	7-20-92	Japan				X
AP	58-93321	6-3-83	Japan			ABS	
AQ	3-19252	1-28-91	Japan			ABS	
AR	2-52449	2-22-90	Japan			PTR/ABS	
AS	58-95636	6-29-83	Japan				X
AT	1-316957	12-21-89	Japan			ABS	

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

AU	Semiconductor World, pp. 52-53, 8/91
AV	European Search Report, 1/92, re 91307625.3
AW	European Search Report, 4/98, re 97111628.0
AX	European Search Report, 3/99, re 981061625
AY	JP application No. 3-234408, Notification of Reasons for Refusal, 1-28-97 (TR)
AZ	JP application No. 2646905, Notification Reasons for Revocation 12-15-98 (TR)
Examiner	Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30415C56	SERIAL NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KATO, et al.	
		Filed: 03/10/04	GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					
	AL					

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
	AM	62-44571	2-26-87	Japan		ABS	
	AN	62-50463	3-5-87	Japan		ABS	
	AO	2-106037	4-18-90	Japan		ABS	
	AP	57-29577	2-17-82	Japan		ABS	
	AQ	62-207866	9-12-87	Japan		FTR	
	AR	59-094435	5-31-84	Japan		ABS	
	AS	63-57734	4-18-88	Japan			X
	AT	63-133521	6-6-88	Japan		FTR/ABS	

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

	AU	Electronic Parts and Materials, 1989, vol. 28, no. 3, pp. 22-29
	AV	Solid State Technology, 10/90, pp. 35-41
	AW	Solid State Technology, 12/90, pp. 37-47
	AX	Semiconductor World, pp. 106-111, 9/90
	AY	Semiconductor World, pp. 122-125, 9/90
	AZ	Semiconductor World, pp. pp. 110-113, 10/89
Examiner		Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30415C56	SERIAL NO. TBd
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KATO, et al.	
		Filed: 03/10/04	GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA	4,836,905	6-6-89	Davis, et al.			
AB	4,923,584	5-8-90	Bramhall, Jr. et al.			
AC	4,643,629	2-17-87	Takahashi, et al.			
AD	5,186,718	2-16-93	Tapman, et al.			
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS *

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation /Abstract	
						Yes	No
AM	60-246635	12-6-85	Japan			ABS	
AN	1-298180	12-1-89	Japan			ABS	
AO	2-94647	4-5-90	Japan			ABS	
AP	64-500072	1-12-89	Japan				X
AQ	2-61064	3-1-90	Japan				X
AR	1-310553	12-14-89	Japan			ABS	
AS	1-251734	10-6-89	Japan			ABS	
AT	63-153270	6-25-88	Japan			FTR	

OTHER DOCUMENTS * (Including Author, Title, Date, Pertinent Pages, Etc.)

AU	Terminological Dictionary of Semiconductor Equipment, Edited by Semiconductor Equipment Association of Japan, Published by Nikkan Kogyo Shinbun sha Inc. (1987) p. 183 (PTR)
AV	Semicon News, April 1987 (pp. 38-43) (PTR)
AW	VLSI Processing Equipment handbook, Ph. D. Kazuo Maeda (6-90), pp. 158 (PTR)
AX	Latest trend of process automation (Realize, Inc.) (1986), pp. 202 and 203
AY	Semicon News, Semicon/East '84, 12-1984, vol. 13., p. 199
AZ	"Semiconductor World", 1990/9, Published by Press Journal, Inc., pp. 136-7 (FTR)
Examiner	Date Considered

* PTR (partial translation) - FTR (full translation) - ABS (abstract)

Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 520.30414C56	SERIAL NO. TBD
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		APPLICANT KATO, et al.	
		FILING DATE March 10, 2004	EXPECTED GROUP 3749

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
AA						
AB						
AC						
AD						
AE						
AF						
AG						
AH						
AI						
AJ						
AK						
AL						

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclasses	Translation/Abstract	
						Yes	No
AM	1-170013	6-19-89	Japan			X	
AN							
AO							
AP							
AQ							
AR							
AS							
AT							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AU	Japanese Office Action dated April 16, 2002
AV	
AW	
AX	
AY	
AZ	
Examiner	Date Considered